

TRAVERSE™ OCT Spinal Fixation System 510(k) Summary

December 2006

K062879

DEC 22 2006

- I. Company:** Medtronic Sofamor Danek USA
1800 Pyramid Place
Memphis, Tennessee 38132
Telephone: (901) 396-3133
Fax: (901) 346-9738
- Contact:** Christine Scifert
Group Director, Regulatory Affairs

II. Proposed Proprietary Trade Name: TRAVERSE™ OCT Spinal Fixation System

- III. Classification Name(s):** Spinal Interlaminar Fixation Orthosis; Spinal Intervertebral Body Fixation Orthosis; Pedicle Screw Spinal System; Orthosis, Spinal Pedicle Fixation, for Degenerative Disc Disease; Class: II; Product Code(s): KWP,MNI; and Regulation No.: 888.3050 and 888.3070

IV. Legally Marketed Devices: VERTEX® Reconstruction System (K052402/K052734)

- V. Description:** The TRAVERSE™ OCT Spinal Fixation System is intended to help provide immobilization and stabilization of spinal segments as an adjunct to fusion of the occipital, cervical and/or upper thoracic spine.

The TRAVERSE™ OCT Spinal Fixation System is a posterior system, which consists of a variety of shapes and sizes of rods, hooks, screws, plates and connecting components, which can be rigidly locked to the rod in a variety of configurations, with each construct being tailor-made for the individual case. Titanium ATLAS® cable may be used with this system at the surgeon's discretion. See the package inserts of both systems for labeling limitations.

The TRAVERSE™ OCT Spinal Fixation System is fabricated from medical grade titanium alloy. Never use titanium alloy with stainless steel in the same construct. The TRAVERSE™ OCT Spinal Fixation System also includes a retaining ring for the multi-axial screws made of Shape Memory Alloy (Nitinol-NiTi). Shape Memory Alloy is compatible with titanium alloy. The offset connectors and multi-axial screw saddle contain elastomeric stakes made of silicone adhesive, and the occipital plates contain nickel-cobalt-chromium-molybdenum alloy coil springs. These materials are commonly used in implantable medical devices. Do not use with stainless steel.

- VI. Indications for Use:** When intended to promote fusion of the occipitocervical spine, the cervical spine, and the thoracic spine, (Occiput-T3), the TRAVERSE™ OCT Spinal Fixation System is indicated for the following:

DDD (neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, spinal stenosis, fracture, dislocation, failed previous fusion and/or tumors.

Occipitocervical Plate/Rod/Occipital Screws/Hooks

The occipitocervical plates, rods, occipital screws, and hooks are intended to provide stabilization to promote fusion following reduction of fracture/dislocation or trauma in the

occipitocervical junction and the cervical spine. When used to treat these occipitocervical and cervical conditions, these screws are limited to occipital fixation only. The screws are not intended to be placed in the cervical spine.

The use of the occipitocervical plates and rods requires bilateral fixation to C2 and below.

Note: segmental fixation is recommended for these constructs.

Hooks

The hooks are also intended to provide stabilization to promote fusion following reduction of fracture/dislocation or trauma in the cervical/upper thoracic (C1-T3) spine.

Multi-Axial Screws/Connectors

The use of multi-axial screws is limited to placement of T1-T3. The screws are not intended to be placed in the cervical spine.

Titanium ATLAS® Cable used with the TRAVERSE™ OCT Spinal Fixation System allows for cable attachment to the posterior cervical or thoracic spine.

- VII. Substantial Equivalence:** Mechanical testing was provided demonstrating that the TRAVERSE™ OCT Spinal Fixation System is substantially equivalent to other commercially available posterior occipitocervical fixation systems and other pre-enactment devices including the VERTEX® Reconstruction System (K052402, SE 09/23/05; K052734, SE 10/21/05). The results of the testing performed for the TRAVERSE™ OCT Spinal Fixation System occipital components were equivalent to or better than the testing performed for the VERTEX® Reconstruction System occipital components.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

Medtronic Sofamor Danek
% Mr. Edward S. Chin, D.Ph., MBA
Group Director, Regulatory and Clinical Affairs
1800 Pyramid Place
Memphis, Tennessee 38132

DEC 22 2006

Re: K062879

Trade/Device Name: TRAVERSE™ OCT Spinal Fixation System
Regulation Number: 21 CFR 888.3070
Regulation Name: Pedicle screw spinal system
Regulatory Class: Class II
Product Code: MNI, KWP
Dated: September 22, 2006
Received: September 26, 2006

Dear Mr. Chin:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

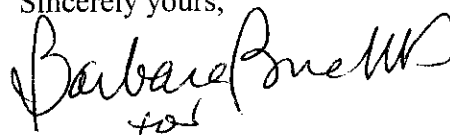
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Mr. Edward S. Chin, D.Ph., MBA

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Barbara Bonnell". The signature is fluid and cursive, with a large initial "B".

for
Mark N. Melkerson

Director

Division of General, Restorative
and Neurological Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

December 2006

510(k) Number (if known): K062879Device Name: TRAVERSE™ OCT Spinal Fixation SystemIndications for Use

When intended to promote fusion of the occipitocervical spine, the cervical spine, and the thoracic spine, (Occiput-T3), the TRAVERSE™ OCT Spinal Fixation System is indicated for the following: DDD (neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, spinal stenosis, fracture, dislocation, failed previous fusion and/or tumors.

Occipitocervical Plate/Rod/Occipital Screws/Hooks

The occipitocervical plates, rods, occipital screws, and hooks are intended to provide stabilization to promote fusion following reduction of fracture/dislocation or trauma in the occipitocervical junction and the cervical spine. When used to treat these occipitocervical and cervical conditions, these screws are limited to occipital fixation only. The screws are not intended to be placed in the cervical spine.

The use of the occipitocervical plates and rods requires bilateral fixation to C2 and below.

Note: segmental fixation is recommended for these constructs.

Hooks

The hooks are also intended to provide stabilization to promote fusion following reduction of fracture/dislocation or trauma in the cervical/upper thoracic (C1-T3) spine.

Multi-Axial Screws/Connectors

The use of multi-axial screws is limited to placement of T1-T3. The screws are not intended to be placed in the cervical spine.

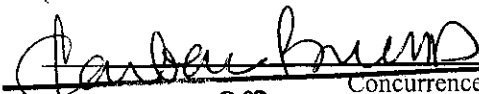
Titanium ATLAS® Cable used with the TRAVERSE™ OCT Spinal Fixation System allows for cable attachment to the posterior cervical or thoracic spine.

Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)


(Division Off)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Division of ~~General~~ Restorative,
and Neurological Devices

510(k) Number K062879